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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/753,226	12/28/2000	Jonathan M. Zweig	3239P064	9354
8791	7590 03/08/2006		EXAMINER	
BLAKELY SOKOLOFF TAYLOR & ZAFMAN 12400 WILSHIRE BOULEVARD SEVENTH FLOOR			PHAN, TRI H	
			ART UNIT	PAPER NUMBER
LOS ANGEI	LES, CA 90025-1030	2661		
			DATE MAILED: 03/08/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	09/753,226	ZWEIG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Tri H. Phan	2661				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 03 No.	Responsive to communication(s) filed on <u>03 November 2005</u> .					
2a) ☐ This action is <b>FINAL</b> . 2b) ☒ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the me						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
<ul> <li>4) Claim(s) 12,14,15 and 22-40 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5) Claim(s) 12,14,15,22,23 and 34-37 is/are allowed.</li> <li>6) Claim(s) 24-26,28-31,33,38 and 40 is/are rejected.</li> <li>7) Claim(s) 27,32 and 39 is/are objected to.</li> <li>8) Claim(s) are subject to restriction and/or election requirement.</li> </ul>						
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction of the order of the orde	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign  a) All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the priori application from the International Bureau  * See the attached detailed Office action for a list of	have been received. have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date 5/1/2003.	4) Interview Summary ( Paper No(s)/Mail Dal 5) Notice of Informal Pa 6) Other:	e				

#### **DETAILED ACTION**

#### Response to Amendment/Arguments

This Office Action is in response to the Response/Amendment filed on November 3<sup>rd</sup>,
 Claims 1-11, 13 and 16-21 are now canceled and new claims 22-40 are added. Claims 12,
 and 22-40 are now pending in the application.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 24-26, 28-31 and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Chuah**, **Mooi Choo** (U.S.6,115,390; hereinafter refer as '**Chuah**').
- In regard to claims 24 and 30, Chuah discloses, a method comprising determining by an access point ('AP'; figure 2, element 236) whether a cast frame is scheduled for transmission to a plurality of wireless units (for example see col. 16, lines 23-27 where the broadcast or multicast 670 in figure 6B, e.g. "cast frame", with transmit schedule 660 is disclosed in figure 6E); translating the cast frame into a plurality of unicast frames (figure 7A, element 700; where the unicast subframe is attached to the back of the broadcast subframe for each connection per wireless

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modem, e.g. 'unicast', as disclosed in figure 7D; col. 16, lines 1-6), each of the plurality of unicast frames being uniquely addressed with a media access control 'MAC' address of a wireless unit (figure 7D, element 708; col. 16, lines 11-13) and transmitting the plurality of unicast frames in succession to the plurality of wireless units (col. 16, lines 23-27). Chuah does disclose about the proxy registration agent in the base station or access point for receiving and forwarding the registration care-of address for the end users as disclosed in col. 8, lines 21-30; but fails to disclose where "the MAC addresses are internally stored within the access point". However, in order for the access point to communicate with the end users, the MAC addresses of the end users are designed to store within the access point, so that the access point can identify where or with whom to communicate with, e.g. receiving/forwarding data from/to the end users.

Thus it would have been obvious to the person of ordinary skill in the art at the time of the invention was made to implement the method for storing the MAC addresses at the Chuah's access node, with the motivation being to provide the ability to communicate with the registered end users in receiving/transmitting data from/to end users.

- Regarding claims 25-26 and 31, in addition to features in base claims 24 and 30 (see rationales pertaining the rejection of base claims 24 and 30 discussed above), Chuah further discloses, the cast frame is a multicast frame directed to a predetermined group of wireless units (col. 14, lines 17-18 and figures 6B and 6F show a broadcast/multicast frame structure); the cast frame is a broadcast frame intended for every wireless unit within a range to receive the frame (col. 14, lines 17-18 and figures 6B and 6F show a broadcast/multicast frame structure).

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- In regard to claim 28, in addition to features in base claims 24 (see rationales pertaining the rejection of base claim 24 discussed above), Chuah further discloses about transmitting the unicast frames in succession to the wireless units addressed by the MAC addresses (col. 16, lines 23-27; where the destination address of the unicast subframe is disclosed in figures 7A, 7D; col. 16, lines 11-13).

- Regarding claim 29, in addition to features in base claims 24 (see rationales pertaining the rejection of base claim 24 discussed above), Chuah further discloses about *receiving the acknowledgement frame from each of the wireless units addressed by the MAC addresses* (figure 23, elements 2323 and 2354 where the ACK and MAC address is disclosed in the downlink unicast sub frame in figures 7A and 7C).
- In regard to claim 33, in addition to features in base claims 31 (see rationales pertaining the rejection of base claim 31 discussed in part 3 of this office action above), Chuah discloses, wherein the translating of the cast frame using the MAC addresses as destination addresses for corresponding plurality of unicast frames (figure 7D, element 708; col. 16, lines 1-13); but lacks to disclosed where the MAC addresses of the plurality of wireless units stored within the access point. However, in order for the access point to communicate with the end users, the MAC addresses of the end users are designed to store within the access point, so that the access point can identify where or with whom to communicate with, e.g. receiving/forwarding data from/to the end users.

end users in receiving/transmitting data from/to end users.

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Thus it would have been obvious to the person of ordinary skill in the art at the time of the invention was made to implement the method for storing the MAC addresses at the Chuah's access node, with the motivation being to provide the ability to communicate with the registered

- 4. Claims 38 and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Chuah**, **Mooi Choo** (U.S.6,115,390; hereinafter refer as '**Chuah**') in view of **IEEE 802.11** (Chapter 7, provided by applicant; hereinafter refer as '**IEEE 802.11**').
- In regard to claims 38 and 40, Chuah discloses, a method for transmitting information to a plurality of devices, comprising translating a cast frame into an Unicast frame (figure 7D; col. 16, lines 1-17) and transmitting the Unicast frame to a destination device (col. 16, lines 23-27); but lacks what IEEE 802.11 discloses wherein the unicast frame is an Eavesdrop Unicast frame being a data frame that includes at least four address fields, a first address field including a destination address of the destination device and a fourth address field including a value assigned to the plurality of devices including the destination device (page 34, figure 12 and page 44, figure 22 shows the structure of a data frame which is the same as applicant's Eavesdrop Unicast packet shown in figure 8 of the specification); and wherein the value is a medium access control 'MAC' address (page 38, section 7.1.3.3, lines 1-5).

Thus it would have been obvious to include the structure of the Eavesdrop Unicast packet so as to conform to the IEEE 802.11 protocol. The motivation for conforming to the protocol is so that there is a standard of communication that allows many users to communicate.

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#### Response to Arguments

5. Applicant's arguments filed on November 3<sup>rd</sup>, 2005 with respect to claims 1-7, 12, 14-15 and 17-21 have been considered but are moot in view of the new ground(s) of rejection.

### Allowable Subject Matter

- 6. Claims 27, 32 and 39 are objected to as being dependent upon a rejected base claims (claims 24, 30 and 38), but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. Claims 12, 14-15, 22-23 and 34-37 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

Many references in the art disclose about the broadcast, multicast and unicast protocols for using in the wireless area network. But no prior art reference utilizes the first address field overwritten or substituted with the second or fourth address field in acknowledging of receipt of the Eavesdrop Unicast frame.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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#### Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Shur et al. (U.S.6,259,701) and Harvey et al. (U.S.6,189,039) are all cited to show devices and methods for providing unicast and multicast in the IP network, which are considered pertinent to the claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tri H. Phan, whose telephone number is (571) 272-3074. The examiner can normally be reached on M-F (8:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau T. Nguyen can be reached on (571) 272-3126.

Any response to this action should be mailed to:

#### Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(571) 273-8300

Hand-delivered responses should be brought to Randolph Building, 401 Dulany Street, Alexandria, VA 22314.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office, whose telephone number is (571) 272-2600.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tri H. Phan March 3, 2006

CHAU NGUYEN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

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